

In re: Hargett, Jr. et al.
Serial No. 10/064,718
Filed: August 9, 2002
Page 2

Amendments to the Claims:

1. (Currently Amended) A protective composite sleeve material for a microwave reaction vessel, said sleeve material comprising consisting essentially of:
a microwave-transparent circumferentially wound cylindrical layer of contiguous yarns fixed with a first polymer layer on the outer surface of said wound layer; and
a chemically-inert pressure-resistant structural polymeric inner layer on the opposite surface of said wound layer from said first polymer layer, said inner layer consisting essentially of a chemically-inert pressure-resistant structural polymer.
2. (Cancelled)
3. (Cancelled)
4. (Previously Amended) A composite sleeve material according to Claim 1 and further comprising a chemically inert outer layer.
5. (Original) A composite sleeve material according to Claim 4 wherein said first structural polymer comprises a polyimide resin.
6. (Previously Amended) A composite sleeve material according to Claim 1 comprising inner and outer layers formed of tetrafluoroethylene polymer.
7. (Previously Amended) A composite sleeve material according to Claim 4 and further comprising at least one additional textile layer and one additional structural polymer layer between said first structural polymer layer and said inert outer layer.

In re: Hargett, Jr. et al.
Serial No. 10/064,718
Filed: August 9, 2002
Page 3

8. (Original) A composite sleeve material according to Claim 7 wherein said additional textile layer is selected from the group consisting of wound filaments, wound yarns, woven fabric, braided fabric, nonwoven fabric, and knitted fabric.

9-12 Cancelled

13. (Original) A composite sleeve according to Claim 10 further comprising a plurality of pairs of adjacent concentric layers of structural polymer and textiles between said inner and outer polymeric layers.

14. (Original) A composite sleeve according to Claim 13 wherein said textile layers in said pairs are selected from the group consisting of woven fabrics, braided fabrics, nonwoven fabrics, and knitted fabrics.

15. (Original) A composite sleeve according to Claim 13 wherein said textile layers in said pairs comprise a winding selected from the group consisting of filaments and yarns.

16-35 Cancelled

36. (Previously Added) A protective composite sleeve material according to Claim 1 wherein said yarns are selected from the group consisting of filament and spun yarns.

37. Cancelled

38. (Currently Amended) A protective composite sleeve and vessel assembly for microwave assisted chemistry, said assembly comprising consisting essentially of:

In re: Hargett, Jr. et al.
Serial No. 10/064,718
Filed: August 9, 2002
Page 4

a sleeve formed of a microwave-transparent circumferentially wound cylindrical layer of contiguous yarns fixed with a first polymer layer on one surface of said wound layer, and a chemically-inert pressure-resistant structural polymeric inner layer on the opposite surface of said wound layer from said first polymer layer; and
a microwave-transparent pressure resistant reaction cylinder surrounded by said sleeve.

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